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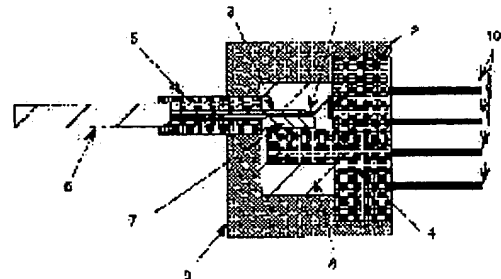
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## (54) OPTICAL DEVICE

### (57)Abstract:

**PURPOSE:** To obtain an optical device comprising a module excellent in long term stability in which optical coupling and fixing are facilitated while shortening the assembling time.

**CONSTITUTION:** The optical device comprises at least one semiconductor optical element of a semiconductor laser 1, a LED, a semiconductor photodiode, etc., and an optical fiber 3, wherein the space between the semiconductor optical element and the optical fiber 3 is filled with a resin 8 transparent for the emitted light and a light shielding resin 9 is applied to the outside. When a plurality of semiconductor optical elements are provided, they are arranged in one or two-dimensional array and an optical fiber 3 is provided for each element. Furthermore, a V-groove for fixing the optical fiber is made in the heat sink.



## LEGAL STATUS

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